

AIR4526-HD

Weatherproof Colour/Mono IR Camera

USER MANUAL

HD



TECHNOLOGY
ADVANCED INFRARED

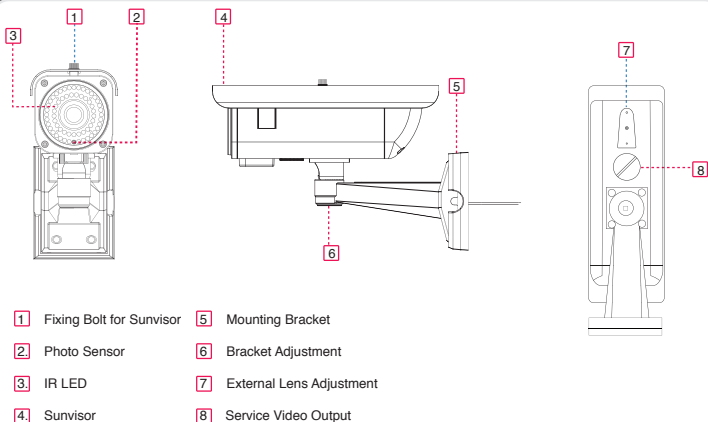
CAUTION

1. This installation should be made by a qualified service person and should abide to all local codes.
2. In order to prevent electronic shock and/or destroy waterproof seals, do not loosen any screws on the camera body.
3. Adjust the sunshield cover to avoid exposure of direct sunlight on the lens.
4. Do not touch the front glass directly. If necessary, use a soft cloth moistened with alcohol to wipe off dust or debris.
5. Avoid installation on a surface subjected to frequent vibration or shocks.
6. Do not operate the camera beyond its temperature range or power source ratings.
7. Should any damage or suspected damage occur, shutdown the power source, unplug and contact your service provider.
8. Do not install the camera under unstable lighting conditions. Severe lighting change or flicker can cause the camera to work improperly.
9. Never use the camera close to a gas or oil leak.
10. Do not disassemble the camera.
11. Do not drop the camera or subject the unit to physical shocks. Never keep the camera face to strong light directly.
12. Ensure all removable covers are replaced to protect the inner components.
13. Do not install near devices which emit a strong electro-magnetic field.
14. Use a dry or damp cloth only for cleaning.

PLEASE FOLLOW THE ABOVE CAUTIONS – FAILURE TO DO SO MAY INVALIDATE THE WARRANTY OR CAUSE SERIOUS INJURY.

Remark: Changes or modifications not expressly approved by the manufacturer can cause the camera to be damaged and become inoperable. This may invalidate the user warranty.

The Concept Pro AIR4526-HD is a weatherproof IR camera, suitable for monitoring areas in hostile conditions and in low light. Utilising HD (High Definition HD-SDI Video).



PACKING CONTENTS



WALL SCREW

X4



FIXING PLATE

X1



FIXING PLATE
LOCATING SCREW

X2



OSD CABLE

X1



BRACKET/FIXING
PLATE SCREW

X4



LENS ADJUSTMENT
COVER SCREW

X1



ALLEN KEY

X1



LENS ADJUSTMENT
TOOL

X1



USER
MANUAL

X1



MOUNTING
DRAWING PAPER

X1

INSTALLATION

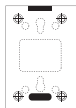
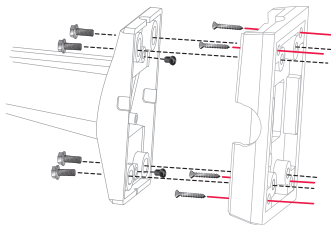
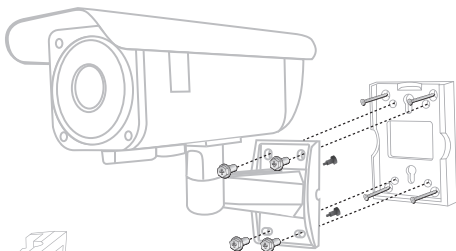
Important: Ensure all cautionary procedures are observed during installation.

It is recommended the camera is tested during the most demanding environmental conditions such as low light or bright sunlight to ensure continuity of effective CCTV monitoring. You may find the use of an ND filter helpful.

Remove the camera unit carefully from the box, reserving the accessory contents in a safe place.

FIXING TO A WALL

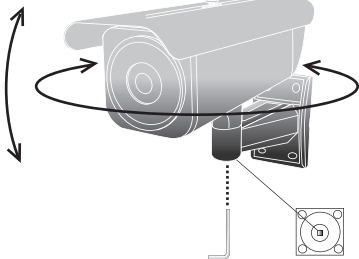
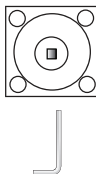
- Use the supplied drill mounting template to mark the spacing for drilling.
- Following drilling, securely attach the bracket and camera to the wall.



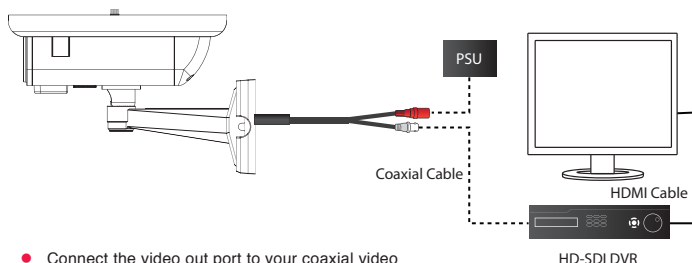
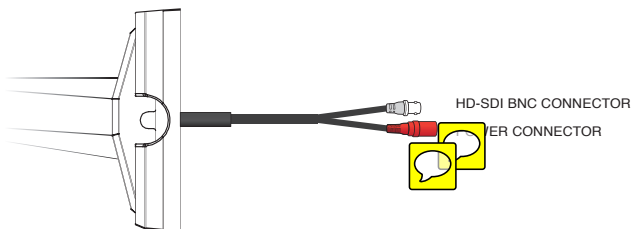
MOUNTING TEMPLATE

POSITIONING

Point the Camera towards the intended area to be monitored.



CONNECTION

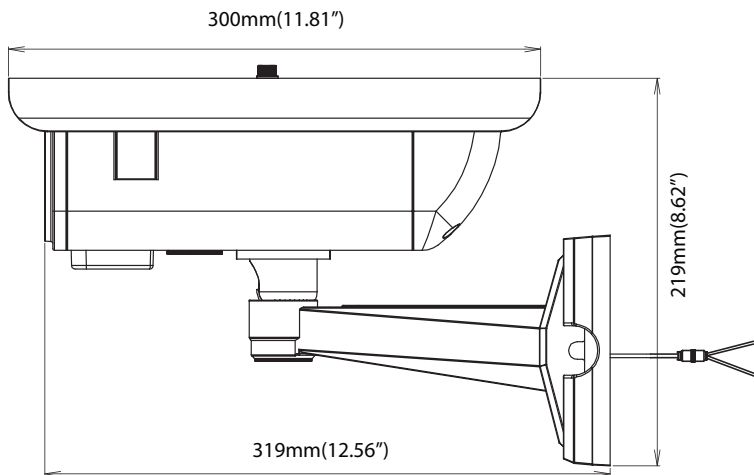


- Connect the video out port to your coaxial video cable running to the HD-SDI recorder.
- Check the power supply is of the correct level and connect your power supply into the power port on the Camera.
- View the picture on a monitoring device to check the power and video connection is working properly.

Troubleshooting

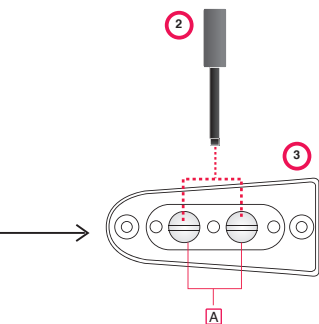
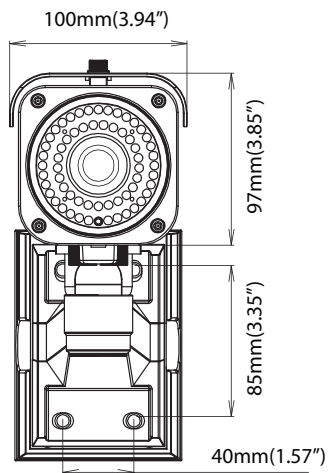
- Ensure all power and cable connections are correct with the Camera, DVR and Test monitor or Telemetry devices if used.
- Power Voltage Check - Remove the OSD cover to see if the green correct power LED is lit. If there red LED is lit the power voltage is too high. If the yellow LED is lit the power voltage is not high enough. If there are no LEDs lit there is no power getting to the camera
- If all power and cable connections are correct and the camera picture can not be produced or configured then contact your supplier for technical support.

DIMENSIONS



EXTERNAL LENS ADJUSTMENT





1 Open the lens adjuster cover and adjust focus and zoom. Loose the screw on the lens adjuster cover.

2. Lens Adjustment Tool

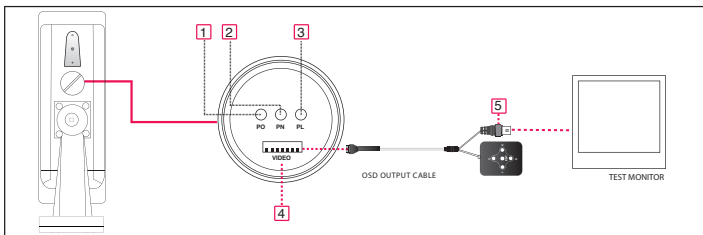
3 Focus and Zoom Adjustments

A Zoom Wide / Narrow
Focus Near / Far

The Service Video Out panel contains a power indicator and test monitor connection for ease of adjusting the camera settings during installation.

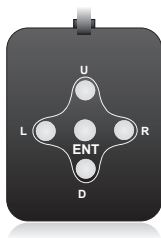
*Please note: The Service Video Out is standard definition

This is an analogue Video Output only, used for setting up via a test monitor.



The power indicator LEDs display the power supply being fed into the camera and whether it is too high, low or correct.

1. "PO": Red LED - Voltage is too high
2. "PN": Green LED - Voltage is correct
3. "PL": Yellow LED - Voltage is too low
4. Extra video out and OSD Connector - Attach your Video test monitor with the service video cable enclosed in your camera box. The camera footage will appear on your test monitor and zoom/focus adjustments can be carried out as the installation requires.
5. Analogue Output (4:3 Video Format)



OSD Controller

- 1) Press "U" to navigate upwards
- 2) Press "D" to navigate downwards
- 3) Press "L" to navigate left
- 4) Press "R" to navigate right
- 5) Press "ENT" to open menu/sub-menu

EXPOSURE

EXPOSURE

BRIGHTNESS

LENS

SHUT SPEED

DSS

AGC

WDR/BLC

DAY & NIGHT

SMART IR

RETURN

DC

AUTO

OFF

OFF

OFF

↓

—

Please note: depending on which "Model" is selected, varies the options in the sub menus.

EXPOSURE	BRIGHTNESS	0 ~ 20	
	LENS	DC / MANUAL	
	SHUT SPEED	AUTO	
		MANUAL	1/60000
	DSS	OFF / X2 / X3 / X4	
	AGC	ON / OFF	
	WDR / BLC	OFF	
			OFF / ON
		BLC OSD	0 ~ 20
		BLC POS-X	0 ~ 20
		BLC POS-Y	0 ~ 20
		BLC SIZ-X	0 ~ 20
		BLC SIZ-Y	0 ~ 20
	DAY & NIGHT MODE	AUTO / DAY / NIGHT / EXT	
		DAY	0 ~ 255s
		NIGHT	ON / OFF
		EXT	LOW / MIDDLE / HIGH
			LOW / MIDDLE / HIGH
	SMART IR	OSD	OFF / ON
		POS-X	0 ~ 20
		POS-Y	0 ~ 20
		SIZ-X	0 ~ 20
		SIZ-Y	0 ~ 20

WHITE BALANCE

WHITE BAL

AWB

CHROMA

RETURN

AUTO

10

AWB	AUTO	
	PRESET	PUSH TO APPLY
	MANUAL	RED GAIN 0 ~ 20
		BLUE GAIN 0 ~ 20
	DOOR	
	INDOOR	
	ROMA	0 ~ 20

IMAGE

IMAGE

SHARPNESS 5
MIRROR OFF
FREEZE OFF
E. ZOOM X1
HLC OFF
ACE OFF
DNR AUTO
RETURN

IMAGE	SHARPNESS	0 ~ 10	
	IMAGE	OFF / H / V / H&V	
	FREEZE	OFF / ON	
	E. ZOOM	X1 ~ X32	
		OFF	
	ON	LEVEL	0 ~ 20
		COLOUR	SELECT COLOUR
	OFF / ON		
	AUTO OFF / LOW / MIDDLE / HIGH		

INTELLIGENCE

INTELLIGENCE

PRIVACY OFF
MOTION OFF
RETURN

INTELLIGENCE			
	PRIVACY	OFF	
		ON	MASK 0 ~ 31
			MODE OFF / ON
			X-POS ADJUST
			Y-POS ADJUST
			Z ADJUST
			Z ADJUST
			COLOUR SELECT COLOUR
			TRANS 0 ~ 4
	MOTION	OFF	
		ON	RESOLUTION 0 ~ 4
			SENSITIVITY 0 ~ 20
			AREA
			WHOLE
			EACH
			AREA 0 ~ 2
			MODE OFF / ON
			X-POS ADJUST
			Y-POS ADJUST
	SMART ZOOM	OFF	
		ON	IN / OUT 0 ~ 8S
			DWELL 0 ~ 8S
			WAIT 0 ~ 8S
			INTERVAL 0 ~ 255S
			DWELL 0 ~ 255S

SPECIAL FUNCTIONS

SPECIAL FUNC

SHADING DET OFF
 SHADING OFF
 DEFECT DET OFF
 DEFOG OFF
 SYSTEM PAL
 HD FORMAT 1080P
 PG OFF
 CVBS ON
 COMM ↓
 RESET ON
 RETURN

SPECIAL FUNC	SHADING DET	OFF / ON
	SHADING	OFF / ON
	DEFECT DET	OFF / ON
	DEFOG	OFF
	SYSTEM	PAL / NTSC
	HD FORMAT	1080P / 720P
	PG	OFF / ON
	CVBS	ON / OFF
	COMM	↓ / ↑
	ID	1 ~ 255
	BAUDRATE	2400 ~ 115200
	PROTOCOL	PELCO-D / PELCO-P / UPDATE

DISPLAY

DISPLAY

DISP SEL ↓
 SET TITLE ↓
 RETURN

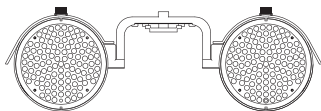
DISPLAY	DISP SEL	ID	OFF / ON
		TITLE	OFF / ON
		EZOOM	OFF / ON
	TITLE	OPENS KEYBOARD	

MODEL		AIR4526-HD
IMAGE SENSOR		1/3" Panasonic CMOS
TOTAL PIXELS		2010(H) x 1108(V) = 2,227,080 (pixel)
ACTIVE PIXELS		1944(H) x 1092(V) = 2,122,848 (pixel)
LENS		2.8~10mm Varifocal
SCANNING SYSTEM		Progressive
RESOLUTION		Digital ; 1920x1080p(1080p/30fps) , 1280x720p(720p/60fps)
		Analogue : 700TVL
MIN. ILLUMINATION		0.0 Lux (IR LED On) (60 Pieces IR LED)
		Color DSS : 0.002 lux , BW DSS : 0.001 lux
IR DISTANCE		45~50m (147.5~163.9ft)
VIDEO OUTPUT		HD-SDI
		Analogue : NTSC, PAL(without WDR)
S/N RATIO		more than 50dB (AGC off)
ELECTRICAL		
POWER SOURCE		DC12V±10% / AC24V±10%
POWER CONSUMPTION		DC: 800mA (Max) AC: 600mA (Max)
GENERAL		
OPERATING TEMPERATURE		-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
STORAGE TEMPERATURE		-20°C ~ +60°C (Humidity : 0%RH ~ 90%RH)
DIMENSION		319mm X 219mm X 100mm
WEIGHT		2.5Kg
FUNCTION		
MENU		D&N / COLOUR / IR SMART / IR CDS
EXPOSURE		
BRIGHTNESS		0 ~ 20 steps
LENS		DC / Manual
SHUT SPEED		Auto / Manual (1/30(1/25) ~ 1/60000)
DSS		Off / x2 / x3 / x4
AGC		Off / On
WDR/BLC		Off / WDR / BLC
DAY&NIGHT		Auto / Day / Night / Ext
SMART IR		Off / On
WHITE BAL		Auto / Preset / Manual / Indoor / Outdoor

Design and specification are subject to change without notice.

IMAGE	
SHARPNESS	0 ~ 10 steps
MIRROR	Off / H / V / H&V
FREEZE	Off / On
E.ZOOM	x1 ~ x32
HLC	Off / On
ACE	Off / On
DEFOG	Off / On
DNR	Off / Low / Middle / High / Auto
INTELLIGENCE	
PRIVACY	Off / On (32 points)
MOTION	Off / On (4 points)
SPECIAL FUNC	
SHADING DET	Off / On
SHADING	Off / On
DEFECT DET	Off / On
SYSTEM	NTSC / PAL
HD FORMAT	1080P / 720P
PG	Off / On
CVBS	Off / On
COMM	ID (1 ~ 255)
	BAUDRATE (2400 / 4800 / 9600 / 19200 / 38400 / 57600/115200)
	PROTOCOL (PELCO-P / PELCO-D / UPDATE)
RESET	On (Default)
LANGUAGE	English
OSD TEXT	0 ~ 9 , A ~ Z , a ~ z

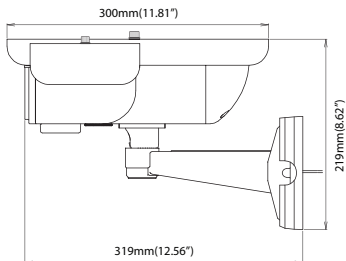
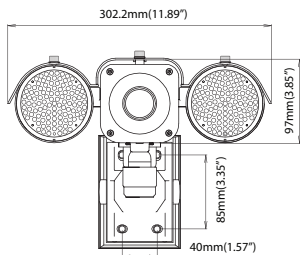
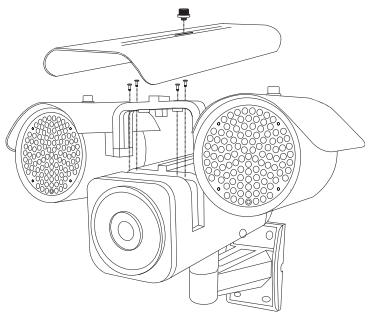
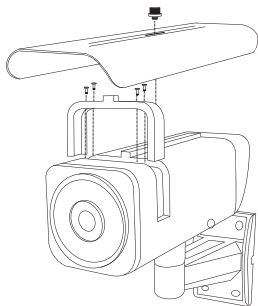
Design and specification are subject to change without notice.



AIR-IR
IR LAMPS

Extend the IR range up to 80m with AIR-IR.

* Lens should be used at 6mm or above to achieve even illumination



HD CAMERA RANGE



CBP6324DN-HD

Internal

1080p/720p 2.8~10mm Varifocal lens,
True Day Night (ICR), SVO, 148(ø) x 106mm,
12V DC / 24V AC



CBP6324DNIR-HD

Internal
Infrared

1080p/720p 2.8~10mm Varifocal lens,
True Day Night (ICR), SVO, IR LED
148(ø) x 106mm, 12V DC / 24V AC



CVP9324DN-HD

Vandal Resistant

1080p/720p 2.8~10mm Varifocal lens,
True Day Night (ICR), SVO,
148.35(ø)x105mm, 12V DC / 24V AC



CVP9324DNIR-HD

Vandal Resistant
Infrared

1080p/720p 2.8~10mm Varifocal lens,
True Day Night (ICR), SVO, IR LED
148.35(ø)x105mm, 12V DC / 24V AC, VR



CVP-BRK

Vandal Resistant
Fixed Dome Bracket

One bracket fits all external ARC CVP
domes



AIR4526-HD

Weatherproof
IR Camera

1080p/720p 2.8~10mm Varifocal lens,
True Day Night (ICR), SVO, IR LED,
319 x 219 x 100mm, 12V DC / 24V AC, VR



AIR-IR

Bolt-on Twin
IR Lamps

Additional AIR for AIR4526-HD
Extend the IR range up to 80m with AIR-IR.

Concept Pro

